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* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	APR 02	CAS Registry Number Crossover Limits Increased to 500,000 in Key STN Databases
NEWS 3	APR 02	PATDPAFULL: Application and priority number formats enhanced
NEWS 4	APR 02	DWPI: New display format ALLSTR available
NEWS 5	APR 02	New Thesaurus Added to Derwent Databases for Smooth Sailing through U.S. Patent Codes
NEWS 6	APR 02	EMBASE Adds Unique Records from MEDLINE, Expanding Coverage back to 1948
NEWS 7	APR 07	CA/CAplus CLASS Display Streamlined with Removal of Pre-IPC 8 Data Fields
NEWS 8	APR 07	50,000 World Traditional Medicine (WTM) Patents Now Available in CAplus
NEWS 9	APR 07	MEDLINE Coverage Is Extended Back to 1947
NEWS 10	JUN 16	WPI First View (File WPIFV) will no longer be available after July 30, 2010
NEWS 11	JUN 18	DWPI: New coverage - French Granted Patents
NEWS 12	JUN 18	CAS and FIZ Karlsruhe announce plans for a new STN platform
NEWS 13	JUN 18	IPC codes have been added to the INSPEC backfile (1969-2009)
NEWS 14	JUN 21	Removal of Pre-IPC 8 data fields streamline displays in CA/CAplus, CASREACT,and MARPAT
NEWS 15	JUN 21	Access an additional 1.8 million records exclusively enhanced with 1.9 million CAS Registry Numbers -- EMBASE Classic on STN
NEWS 16	JUN 28	Introducing "CAS Chemistry Research Report": 40 Years of Biofuel Research Reveal China Now Atop U.S. in Patenting and Commercialization of Bioethanol
NEWS 17	JUN 29	Enhanced Batch Search Options in DGENE, USGENE, and PCTGEN
NEWS 18	JUL 19	Enhancement of citation information in INPADOC databases provides new, more efficient competitor analyses

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
AND CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010.

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NEWS LOGIN Welcome Banner and News Items

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FILE 'HOME' ENTERED AT 14:50:58 ON 24 JUL 2010

=> file registry
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.22       0.22

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STRUCTURE FILE UPDATES:   23 JUL 2010  HIGHEST RN 1233764-64-1
DICTIONARY FILE UPDATES:  23 JUL 2010  HIGHEST RN 1233764-64-1

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TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

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experimental property data in the original document.  For information
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http://www.cas.org/support/stngen/stndoc/properties.html

=> e astxanthin/cn
E1            1     ASTUPROTIMUT-R/CN
E2            1     ASTURIDON/CN
E3            0 --> ASTXANTHIN/CN
E4            1     ASTYMIN 3/CN
E5            1     ASTYMIN FORTE/CN
E6            1     ASTYN/CN
E7            1     ASTYRENECRYLIC ACID-E12 STEARATE-GLYCIDYL METHACRYLATE-ISOBO
                    RNYL METHACRYLATE-STYRENE GRAFT COPOLYMER DIETHANOLAMINE SAL
                    T/CN
E8            1     ASTYRON/CN
E9            1     ASTYRONE/CN
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E10           1     ASU/CN
E11           1     ASU 26C/CN
E12           1     ASU 95510H/CN

=> e astaxanthin/cn
E1            1     ASTAX 10000H/CN
E2            1     ASTAX 1700/CN
E3            1 --> ASTAXANTHIN/CN
E4            1     ASTAXANTHIN B-D-DIGLUCOSIDE/CN
E5            1     ASTAXANTHIN 3,3'-DIACETATE/CN
E6            1     ASTAXANTHIN BIS(CIS-ACONITATE)/CN
E7            1     ASTAXANTHIN BIS(L-PROLINATE) DIHYDROCHLORIDE/CN
E8            1     ASTAXANTHIN BIS(L-TARTRATE)/CN
E9            1     ASTAXANTHIN BIS(TRIMETHYLSILYL) ETHER/CN
E10           1     ASTAXANTHIN DI(2-FUROATE)/CN
E11           1     ASTAXANTHIN DI(N-ACETYLGLYCINATE)/CN
E12           1     ASTAXANTHIN DI-L-LYSINATE TETRAHYDROCHLORIDE/CN

=> s e3
L1            1 ASTAXANTHIN/CN

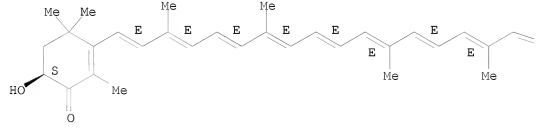
=> d l1

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2010 ACS on STN
RN   472-61-7  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   β,β-Carotene-4,4'-dione, 3,3'-dihydroxy-, (3S,3'S)-  (CA INDEX
     NAME)
OTHER CA INDEX NAMES:
CN   β-Carotene-4,4'-dione, 3,3'-dihydroxy-, all-trans- (8CI)
CN   Astaxanthin (6CI)
OTHER NAMES:
CN   (3S,3'S)-all-trans-Astaxanthin
CN   (3S,3'S)-Astaxanthin
CN   (3S,3'S)-Astaxanthin
CN   (S,S)-Astaxanthin
CN   all-trans-Astaxanthin
CN   Aquasta
CN   AstaREAL
CN   Astared
CN   Astaxanthin, all-trans-
CN   AstaXin
CN   Astots 10O
CN   Astots 5O
CN   BioAstin
CN   BioAstin oleoresin
CN   Carophyll Pink
CN   Lucantin Pink
CN   Natupink
CN   NatuRose
CN   Ovoester
CN   trans-Astaxanthin
FS   STEREOSEARCH
DR   346585-67-9
MF   C40 H52 O4
CI   COM
LC   STN Files:   ADISINSIGHT, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS,
```

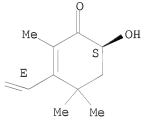
BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NAPRALERT, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD, VETU
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3609 REFERENCES IN FILE CA (1907 TO DATE)
336 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3625 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```
=> e caprylic/cn
E1            1     CAPRYLENE/CN
E2            1     CAPRYLGUANAMINE/CN
E3            0 --> CAPRYLIC/CN
E4            1     CAPRYLIC ACID/CN
E5            1     CAPRYLIC ACID A-MONOGLYCERIDE/CN
E6            1     CAPRYLIC ACID 2,2,2-TRICHLOROETHYL ESTER/CN
E7            1     CAPRYLIC ACID 2,4-DINITROPHENYLHYDRAZIDE/CN
E8            1     CAPRYLIC ACID 2-AMINOETHYL ESTER HYDROCHLORIDE/CN
E9            1     CAPRYLIC ACID 2-BUTANOL ESTER/CN
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E10           1     CAPRYLIC ACID 2-CHLOROETHYL ESTER/CN
E11           1     CAPRYLIC ACID 2-DECANOL ESTER/CN
E12           1     CAPRYLIC ACID 2-DODECANOL ESTER/CN

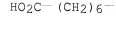
=> e octanoic/cn
E1            1     OCTANOHYDROXIMIC ACID, MONOPOTASSIUM SALT/CN
E2            1     OCTANOHYDROXIMOYL CHLORIDE/CN
E3            0 --> OCTANOIC/CN
E4            1     OCTANOIC ACID/CN
E5            1     OCTANOIC ACID ((2R,4S)-2-(4-METHYLPHENYL)-2-BROMOMETHYL-1,3-
                    DIOXOLAN-4-YL)METHYL ESTER/CN
E6            1     OCTANOIC ACID ((2S,4S)-2-(4-METHYLPHENYL)-2-BROMOMETHYL-1,3-
                    DIOXOLAN-4-YL)METHYL ESTER/CN
E7            1     OCTANOIC ACID (10-(3,6,7,10,11-PENTAKISHEXYLOXYTRIPHENYLEN-2
                    -YLOXY)DECYL)AMIDE/CN
E8            1     OCTANOIC ACID (2,6-DIMETHYL-4-(MORPHOLIN-4-YL)PHENYL)AMIDE/C
                    N
E9            1     OCTANOIC ACID 1-(4-BIPHENYLYL)ETHYL ESTER/CN
E10           1     OCTANOIC ACID 1-MONOGLYCERIDE/CN
E11           1     OCTANOIC ACID 2-((6-FLUORO-7-METHYL-2-TRIFLUOROMETHYL-(1,8)N
                    APHTHYRIDIN-3-YL)CARBONYL)-3-OXOCYCLOHEX-1-ENYL ESTER/CN
E12           1     OCTANOIC ACID 2-MONOGLYCERIDE/CN

=> s e4
L2            1 "OCTANOIC ACID"/CN

=> d l2

L2   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2010 ACS on STN
RN   124-07-2  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Octanoic acid  (CA INDEX NAME)
OTHER NAMES:
CN   1-Heptanecarboxylic acid
CN   Caprylic acid
CN   Edenor C 8-98-100
CN   Emery 657
CN   Kortacid 0899
CN   Lunac 8-95
CN   Lunac 8-98
CN   n-Caprylic acid
CN   n-Octanoic acid
CN   n-Octoic acid
CN   n-Octylic acid
CN   NAA 82
CN   Neo-Fat 8
CN   Neo-Fat 8S
CN   NSC 5024
CN   Octylic acid
CN   Prifac 2901
MF   C8 H16 O2
CI   COM
LC   STN Files:   AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA,
       CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN,
       CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
       ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
       MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS*, SPECINFO,
```

SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16699 REFERENCES IN FILE CA (1907 TO DATE)
1537 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
16872 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.16	17.38

FILE 'CAPLUS' ENTERED AT 14:53:46 ON 24 JUL 2010
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FILE COVERS 1907 - 24 Jul 2010 VOL 153 ISS 5
FILE LAST UPDATED: 23 Jul 2010 (20100723/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2010

CAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l1 (L) l2
3625 L1
16872 L2
L3 0 L1 (L) L2

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=> s l1 and l2
          3625 L1
         16872 L2
L4           12 L1 AND L2

=> d l4 1-12 ibib abs

L4   ANSWER 1 OF 12  CAPLUS  COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER:         2009:1402768  CAPLUS
DOCUMENT NUMBER:          151:536451
TITLE:                    Cationic latex as a carrier for active ingredients and
                          methods for making and using the same
INVENTOR(S):              Krishnan, Venkataram
PATENT ASSIGNEE(S):       Mallar Creek Polymers, Inc., USA
SOURCE:                   PCT Int. Appl., 89pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   3
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
     ---------------     ----   --------    --------------------     --------
     WO 2009137014        A1    20091112    WO 2009-US2744           20090504
         W:  AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
             CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES,
             FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,
             KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
             ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,
             PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,
             TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
             IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI,
             SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
             TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
             ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
     US 20080233062       A1    20080925    US 2008-116006           20080506
PRIORITY APPLN. INFO.:                      US 2008-116006      A    20080506
                                            US 2006-839973P     P    20060824
                                            US 2007-895541      A2   20070824
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB   This invention relates to the field of polymeric materials that can be
     used in combination with a wide variety of substrates, such as textiles,
     metal, cellulosic materials, plastics, and the like, and to the field of
     active agents including, for example, antimicrobial, antibacterial, and
     antifungal materials.  This invention further relates to latex polymer
     coatings that comprise at least one active component as well as methods
     for making and using such latex compns.  Thus, deodorant composition was
prepared
     comprising DC245 fluid 49.30%, Bentone gel VS-5/PC 13.50%, Puresyn 4
     10.0%, Asensa CL 110 1.0%, Cabosil M5 0.2%, Reach AZP 908 SUF 24.0%, and
     dipropylene glycol 2.0%.
REFERENCE COUNT:          3     THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4   ANSWER 2 OF 12  CAPLUS  COPYRIGHT 2010 ACS on STN
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ACCESSION NUMBER: 2009:62711 CAPLUS
DOCUMENT NUMBER: 151:287467
TITLE: Multiresidue analysis of pesticides in animal and fishery products by NCI mode GC/MS and dual-column GC-micro ECD
AUTHOR(S): Ueno, Eiji; Kabashima, Yuka; Oshima, Harumi; Ohno, Tsutomu
CORPORATE SOURCE: Aichi Prefectural Institute of Public Health, Nagoya, 462-8576, Japan
SOURCE: Shokuhin Eiseigaku Zasshi (2008), 49(6), 390-398
CODEN: SKEZAP; ISSN: 0015-6426
PUBLISHER: Nippon Shokuhin Eisei Gakkai
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
AB A sensitive and quant. multiresidue method using NCI mode GC/MS and GC-micro ECD for determining pesticides in animal and fishery products was established. The crude sample extract obtained by acetone-hexane extraction for solid samples or acetonitrile extraction for liquid samples was cleaned up with a GPC/SPE system. The first GPC pesticide fraction containing lipids and pigments was selectively collected, and loaded directly onto a graphitized carbon/PSA 2-layered column. After the second GPC pesticide fraction was collected, the 2-layered column was eluted with acetone-hexane (3:7). The combined eluate was subjected to NCI-SIM/Scan mode GC/MS for semi-quantification. After fractionation by Florisil cartridge column SPE, each fraction was subjected to dual-column GC-micro ECD for quantification. Average recoveries (n = 5) of pesticides, except for chlorothalonil and some others, from fortified samples ranged from 76.8% to 107.9% with RSD values of <9.7%.
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2008:1155669 CAPLUS
DOCUMENT NUMBER: 149:408949
TITLE: Cationic latex as a carrier for active ingredients and methods for making and using the same
INVENTOR(S): Krishnan, Venkataram
PATENT ASSIGNEE(S): Mallard Creek Polymers, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S. Ser. No. 895541.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20080233062	A1	20080925	US 2008-116006	20080506
US 20080057049	A1	20080306	US 2007-895541	20070824
WO 2009137014	A1	20091112	WO 2009-US2744	20090504

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,

ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI,
SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: US 2006-839973P P 20060824
US 2007-895541 A2 20070824
US 2008-116006 A 20080506

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB This invention relates to the field of polymeric materials that can be used in combination with a wide variety of substrates, such as textiles, metal, cellulosic materials, plastics, and the like, and to the field of active agents including, for example, antimicrobial, antibacterial, and antifungal materials. This invention further relates to latex polymer coatings that comprise at least one active component as well as methods for making and using such latex compns. Thus, deodorant composition was prepared
comprising DC245 fluid 49.30%, Bentone gel VS-5/PC 13.50%, Puresyn 4 10.0%, Asensa CL 110 1.0%, Cabosil M5 0.2%, Reach AZP 908 SUF 24.0%, and dipropylene glycol 2.0%.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2007:1207105 CAPLUS
DOCUMENT NUMBER: 147:454810
TITLE: External compositions containing redox catalysts, oxidoreductase, and/or reducing agents
INVENTOR(S): Yanagi, Kotaro
PATENT ASSIGNEE(S): Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 19pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007277212	A	20071025	JP 2006-127932	20060404

PRIORITY APPLN. INFO.: JP 2006-127932 20060404

AB The invention relates to an external composition, especially an anti-wrinkle, skin-whitening, anti-acne, anti-aging, and skin barrier function-improving cosmetic composition, wherein the composition is characterized by containing at least
two components selected from a metal redox catalyst, an oxidoreductase, and a reducing agent. The components activates biol. tissue or bioactive agent through the reducing effect. The components may be immobilized on the surface of carrier particles. For example, crystallized subtilisin was crosslinked with protein through glutaraldehyde to stabilize. The crystal was mixed with platinum colloid in 0.5 % xanthan gel at 10 and 0.1 %, resp., and further mixed with L-ascorbic acid-2-phosphate ester-6-palmitate (3 %), fullerene C60 (1 %), and preservative (2 %). The gel composition showed higher keratolytic effect as compared with glycolic acid

cream on human skin. Also, an emulsion composition containing the gel composition
0.0001-10 % with other ingredients was formulated.

L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:1287293 CAPLUS
DOCUMENT NUMBER: 147:166496
TITLE: Chemical synthesis of astaxanthin n-octanoic acid monoester and diester and evaluation of their oral absorbability
AUTHOR(S): Fukami, Harukazu; Namikawa, Koshi; Sugiura-Tomimori, Namino; Sumida, Motoo; Katano, Kenji; Nakao, Masahiro
CORPORATE SOURCE: Department of Bioscience and Biotechnology, Faculty of Bioenvironmental Science, Kyotogakuen University, 1-1 Nanjyo, Sogabe-cho, Kameoka-city, Kyoto, 621-8555, Japan
SOURCE: Journal of Oleo Science (2006), 55(12), 653-656
CODEN: JOSOAP; ISSN: 1345-8957
PUBLISHER: Japan Oil Chemists' Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 147:166496
AB We chemical synthesized astaxanthin n-octanoic acid monoester and diester from free astaxanthin and n-octanoic acid by a dehydration reagent in 32 and 22% yield, resp. The oral absorbability of the n-octanoic acid monoester and diester was evaluated by examining the plasma and liver concns. of astaxanthin after oral administration of the compds. The monoester significantly increased the plasma and liver concentration of astaxanthin compared with the long-chain fatty acid ester mixture derived from Haematococcus algae. The diester is inclined to increase it although it is not significant. It is possible that medium-chain fatty acid esters give better oral-absorbability of astaxanthin than long-chain fatty acid esters.
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:1219315 CAPLUS
DOCUMENT NUMBER: 146:44433
TITLE: Carotenoids in Solenocera indica and Aristeus alcocki, deep-sea shrimp from Indian waters
AUTHOR(S): Manjabhat, Sachindra Nakkarike; Narayan, Bhaskar; Subbanna, Mahendrakar Namdev
CORPORATE SOURCE: Department of Meat, Fish, and Poultry Technology, Central Food Technological Research Institute, Mysore, 570 013, India
SOURCE: Journal of Aquatic Food Product Technology (2006), 15(2), 5-16
CODEN: JAFPE5; ISSN: 1049-8850
PUBLISHER: Food Products Press
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Carotenoids are the major pigments responsible for the color of crustaceans like shrimp. Quant. and qual. distribution of carotenoids in different body components of deep-sea shrimp Solenocera indica and

Aristeus alcocki, from Indian waters were assessed. The yield of waste (head and carapace) from processing of these shrimp ranged from 62.6-65.6%. Carotenoid content was higher in A. alcocki and the highest total carotenoid content of 185.3 μg/g was observed in head of A. alcocki. Astaxanthin and its mono- and diesters (63.5-92.2%) were the major carotenoids in both the species of shrimp and the levels of esterified astaxanthin were higher than the free form of astaxanthin. The levels of astaxanthin esters were higher (61.7-70.8%) in A. alcocki compared to S. indica (43.8-58.4%). Highest unsatd. fatty acid content (60.5%) was observed in the carotenoid extract from head of A. alcocki, and the highest saturated fatty acid content (83.1%) was observed in the carotenoid extract from the carapace.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:161417 CAPLUS
DOCUMENT NUMBER: 142:279029
TITLE: Carotenoids in crabs from marine and fresh waters of India
AUTHOR(S): Sachindra, N. M.; Bhaskar, N.; Mahendrakar, N. S.
CORPORATE SOURCE: Department of Meat, Fish and Poultry Technology, Central Food Technological Research Institute, Mysore, 570 013, India
SOURCE: LWT--Food Science and Technology (2005), 38(3), 221-225
CODEN: LSTWB3
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Quant. and qual. distribution of carotenoids in meat and shell of major marine crab (Charybdis cruciata) and fresh water crab (Potamon potamon) from Indian waters was assessed. The total carotenoid content was low in both species of crabs analyzed, highest being 11.0 μg/g in shell of marine crab. Thin-layer chromatog. (TLC) and high-performance liquid chromatog. (HPLC) of carotenoid exts. indicated that the marine crab contained astaxanthin and its esters as major carotenoids and zeaxanthin was major carotenoid in fresh water crab extract Astaxanthin and its esters contributed 67.6 and 65.5 g/100 g of total carotenoids in meat and shell of marine crab. The zeaxanthin content (g/100 g) in the carotenoid extract of meat and shell of fresh water crab was 42.0 and 74.8 of total carotenoids. The carotenoid exts. from both the crabs had higher level of unsatd. fatty acids. Oleic acid (C18:1) and palmitoleic acid (C16:1) were the predominant unsatd. fatty acid in carotenoid extract from meat of marine and fresh water crab, resp. In the carotenoid extract from shell, eicosenoic acid (C20:1) in marine crab and linolenic acid (C18:3) in fresh water crab were the major unsatd. fatty acids.

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:19691 CAPLUS
DOCUMENT NUMBER: 142:133344
TITLE: Carotenoids in different body components of Indian shrimps

AUTHOR(S): Sachindra, Nakkarike M.; Bhaskar, Narayan; Mahendrakar, Namadev S.
CORPORATE SOURCE: Department of Meat, Fish and Poultry Technology, Central Food Technological Research Institute, Mysore, 570 013, India
SOURCE: Journal of the Science of Food and Agriculture (2005), 85(1), 167-172
CODEN: JSFAAE; ISSN: 0022-5142
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The quant. and qual. distribution of carotenoids in different body components of 4 species of shrimp (Penaeus monodon, Penaeus indicus, Metapenaeus dobsonii, and Parapenaeopsis stylifera) harvested from shallow waters off the Indian coast was assessed. The highest total carotenoid contents were observed in the head (153.1 μg g-1) and carapace (104.7 μg g-1) of P. stylifera, while the body components of P. indicus showed the lowest carotenoid levels. Astaxanthin and its mono- and diesters were the major carotenoids (63.5-92.2% of total carotenoids) present in the carotenoid exts. from the shrimps, while the exts. contained low levels of β-carotene and zeaxanthin. The major fatty acids in the carotenoid exts. were palmitic, heptadecanoic, palmitoleic, stearic, and oleic acids.
OS.CITING REF COUNT: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:404819 CAPLUS
DOCUMENT NUMBER: 141:189706
TITLE: Sugar ester synthesis by a mycelium-bound Mucor circinelloides lipase in a micro-reactor equipped with water activity sensor
AUTHOR(S): Antczak, Tadeusz; Patura, Justyna; Szczesna-Antczak, Miroslawa; Hiler, Dariusz; Bielecki, Stanislaw
CORPORATE SOURCE: Institute of Technical Biochemistry, Technical University of Lodz, Lodz, 90-924, Pol.
SOURCE: Journal of Molecular Catalysis B: Enzymatic (2004), 29(1-6), 155-161
CODEN: JMCEF8; ISSN: 1381-1177
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:189706
AB The mycelium-bound Mucor circinelloides lipase was used for the synthesis of esters of saccharides and fatty acids in 37 mL reactor equipped with magnetic stirrer and water activity sensor. Either di-n-pentyl ether or the mixture of di-n-pentyl and petroleum ethers were applied as reaction media. Water activity sensor provided online monitoring of this parameter and control of continuous processes of ester synthesis. It was found that two natural antioxidants, i.e. carotene and astaxanthin activated this lipase in organic solvents that could be beneficial for the synthesis of esters of compds. sensitive to oxidation, e.g. polyunsatd. fatty acids.
OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:892745 CAPLUS
DOCUMENT NUMBER: 139:363710
TITLE: Astaxanthin medium-chain fatty acid ester manufacture by enzymic transesterification and esterification
INVENTOR(S): Sumida, Motoo; Nakao, Masahiro; Tomimori, Namino; Namikawa, Koshi; Fukami, Harukazu
PATENT ASSIGNEE(S): Suntory Limited, Japan
SOURCE: PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003093229	A1	20031113	WO 2003-JP5443	20030428
W: AU, CA, CN, ID, IL, JP, KR, SG, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
CA 2481704	A1	20031113	CA 2003-2481704	20030428
AU 2003234765	A1	20031117	AU 2003-234765	20030428
AU 2003234765	B2	20090917		
EP 1500645	A1	20050126	EP 2003-728006	20030428
EP 1500645	B1	20090715		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
CN 1649839	A	20050803	CN 2003-809532	20030428
CN 100374417	C	20080312		
SG 150385	A1	20090330	SG 2006-7508	20030428
JP 4410675	B2	20100203	JP 2004-501368	20030428
KR 941899	B1	20100211	KR 2004-716796	20030428
US 20050228188	A1	20051013	US 2004-511829	20041020
PRIORITY APPLN. INFO.:			JP 2002-128989 A	20020430
			WO 2003-JP5443 W	20030428

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB An astaxanthin medium-chain fatty acid ester (I) useful for manufacturing food, cosmetic, and drug has better bioavailability and movement in liver than that of the previously known astaxanthin long-chain fatty acid esters. I is prepared by enzymic transesterification with a lipase between the astaxanthin long-chain fatty acid esters and medium-chain fatty acid or glycerides, or enzymic esterification of astaxanthin. Manufacture of astaxanthin mono- and diester of octanoic acid with lipase of Candida was shown.
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:888445 CAPLUS
DOCUMENT NUMBER: 137:375344
TITLE: Two-part disinfecting system
INVENTOR(S): Morelli, Joseph; Warf, C. Cayce, Jr.; Aldrich, Maura; Morse, Cecilia Moser; Wiley, Jean

PATENT ASSIGNEE(S): Alcide Corporation, USA
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002091832	A1	20021121	WO 2002-US15303	20020515
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 6524624	B1	20030225	US 2001-859902	20010516
AU 2002308724	A1	20021125	AU 2002-308724	20020515
EP 1401280	A1	20040331	EP 2002-769742	20020515
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.: US 2001-859902 A 20010516
WO 2002-US15303 W 20020515
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
AB The two-part disinfecting system contains a first part and a second part adapted to be mixed to yield an aqueous disinfecting composition, wherein the first part comprises a chlorite and the second part comprises an acid and an oxidizable colorant, and wherein the first and/or second part comprise an α-olefin sulfonate. When the two parts are mixed, the resulting disinfectant composition shows reduced chlorine dioxide generation and extended color longevity.
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:821281 CAPLUS
DOCUMENT NUMBER: 134:146440
TITLE: Activity of immobilised in situ intracellular lipases from Mucor circinelloides and Mucor racemosus in the synthesis of sucrose esters
AUTHOR(S): Antczak, T.; Hiler, D.; Krystynowicz, A.; Szczesna, M.; Bielecki, S.; Galas, E.
CORPORATE SOURCE: Institute of Technical Biochemistry, Technical University of Lodz, Lodz, 90-924, Pol.
SOURCE: Progress in Biotechnology (2000), 17(Food Biotechnology), 221-227
CODEN: PBITE3; ISSN: 0921-0423
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

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OTHER SOURCE(S):         CASREACT 134:146440
AB   The activity of intracellular, immobilized in situ lipases from Mucor
     circinelloides and Mucor racemosus can be changed by means of chemical
     modifications of the reaction milieu, using some substances isolated from
     Mucor cells.  The substances act ambivalently (as activators or
     inhibitors) on the lipases.  The yield of sucrose monocaprylate synthesis
     and the time to reach the reaction equilibrium state were determined in mono-
and
     biphasic systems.  The investigations proved that in a milieu of
     di-n-pentyl ether saturated with water, 92% of sucrose was esterified, and the
     location of the lipase on the interface between the phases, markedly
     diminished the time equilibrium to reach.
OS.CITING REF COUNT:     4     THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
                               (4 CITINGS)
REFERENCE COUNT:         14    THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT


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     FILE 'REGISTRY' ENTERED AT 14:51:31 ON 24 JUL 2010
                E ASTXANTHIN/CN
                E ASTAXANTHIN/CN
L1            1 S E3
                E CAPRYLIC/CN
                E OCTANOIC/CN
L2            1 S E4

     FILE 'CAPLUS' ENTERED AT 14:53:46 ON 24 JUL 2010
L3            0 S L1 (L) L2
L4           12 S L1 AND L2

=> log off
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y
STN INTERNATIONAL LOGOFF AT 14:57:02 ON 24 JUL 2010
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